



872C DC Cable Style
12, 18, 30 mm



872C DC Micro
Quick-Disconnect Style
12, 18, 30 mm

Features

- 2-wire operation
- 2-conductor or 4-pin connection
- 10...30V DC
- Normally open or normally closed output
- Reverse polarity, short circuit, overload, false pulse, and transient noise protection
- cULus Listed and CE Marked for all applicable directives

Specifications

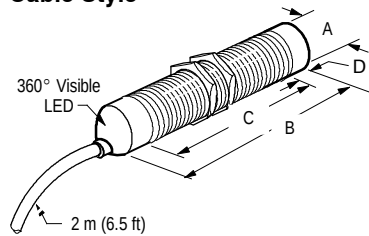
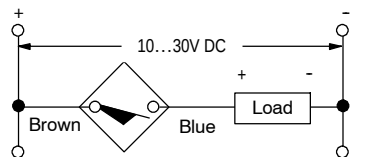
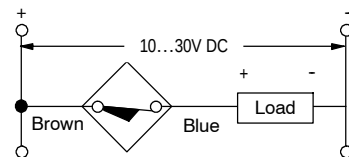
Load Current	≤100 mA
Minimum Load Current	5 mA
Leakage Current	≤0.9 mA
Operating Voltage	10...30V DC
Voltage Drop	≤6V
Repeatability	≤2%
Hysteresis	10% typical
Reverse Polarity Protection	Incorporated
Transient Noise Protection	Incorporated
Short Circuit Protection	Incorporated
Overload Protection	Incorporated
False Pulse Protection	Incorporated
Certifications	cULus Listed and CE Marked for all applicable directives
Enclosure	NEMA 1, 2, 3, 4, 6P, 12, 13 IP67 (IEC529) Nickel-plated brass barrel, plastic face (PBT)
Connections	Cable: 2 m (6.5 ft) length, 4.4 mm (0.175 in.) diameter, 2-conductor #26 AWG PVC Quick-Disconnect: 4-pin micro style
LED	Red: Output energized, 360° visibility
Operating Temperature [C (F)]	-25...+70° (-13...+158°)
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm amplitude, 3 planes

Correction Factors

Target Material	Correction Factor
Steel	1.0
Stainless Steel	0.7...0.8
Brass	0.4...0.5
Aluminum	0.3...0.4
Copper	0.2...0.3

Product Selection

Barrel Diameter	Nominal Sensing Distance [mm (in.)]	Shielded	Output Configuration	Switching Frequency [Hz]	Cat. No.	
					Cable Style	Micro QD Style
12 mm	3 (0.12)	Y	N.O.	2000	872C-D3NE12-A2	872C-D3NE12-D4
			N.C.		872C-D3CE12-A2	872C-D3CE12-D4
	4 (0.16)	N	N.O.		872C-D4NE12-A2	872C-D4NE12-D4
			N.C.		872C-D4CE12-A2	872C-D4CE12-D4
18 mm	5 (0.20)	Y	N.O.	1000	872C-D5NE18-A2	872C-D5NE18-D4
			N.C.		872C-D5CE18-A2	872C-D5CE18-D4
	8 (0.31)	N	N.O.		872C-D8NE18-A2	872C-D8NE18-D4
			N.C.		872C-D8CE18-A2	872C-D8CE18-D4
30 mm	10 (0.39)	Y	N.O.	500	872C-D10NE30-A2	872C-D10NE30-D4
			N.C.		872C-D10CE30-A2	872C-D10CE30-D4
	15 (0.59)	N	N.O.		872C-D15NE30-A2	872C-D15NE30-D4
			N.C.		872C-D15CE30-A2	872C-D15CE30-D4
Recommended standard QD cordset (-2 = 2 m (6.5 ft))						889D-F4AC-2

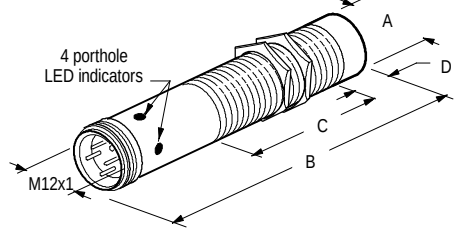
Approximate Dimensions [mm (in.)]**Cable Style****Wiring Diagrams****Normally Open****Normally Closed**

Note: Load can be switched to brown wire.

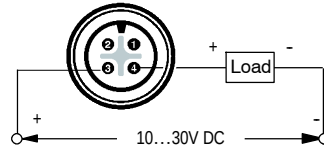
Thread Size	Shielded	[mm (in.)]			
		A	B (max)	C (min)	D (max)
M12 X 1	Y	12 (0.47)	50.8 (2.00)	46.7 (1.84)	—
	N		58.7 (2.31)		7.9 (0.31)
M18 X 1	Y	18 (0.71)	50.8 (2.00)		—
	N		63.0 (2.48)		12.2 (0.48)
M30 X 1.5	Y	30 (1.18)	50.8 (2.00)		—
	N		63.0 (2.48)		12.2 (0.48)

Inductive Proximity Sensors
872C WorldProx™ 2-Wire DC
 Plastic Face/Threaded Nickel-Plated Brass Barrel

Micro Quick-Disconnect Style



Normally Open or Normally Closed



Note: Load can be switched to pin 3.

Thread Size	Shielded	[mm (in.)]			
		A	B (max)	C (min)	D (max)
M12 X 1	Y	12.0 (0.47)	65.0 (2.56)	38.1 (1.50)	—
	N		72.4 (2.85)		7.9 (0.31)
M18 X 1	Y	18.0 (0.71)	65.0 (2.56)		—
	N		76.5 (3.01)		12.2 (0.48)
M30 X 1.5	Y	30.0 (1.18)	65.0 (2.56)	46.7 (1.84)	—
	N		76.5 (3.01)		12.2 (0.48)